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STATE DOCUMENTS

MONTANA HIGHWAY DEPARTMENT

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EQUIPMENT RENTAL RATES

(Rates To Be Used On All Extra Work Orders Involving Equipment Rental
On A Force Account Basis)



Adopted

Montana Contractors Association, Inc.



Approved By

STATE HIGHWAY COMMISSION

Effective
JANUARY 1, 1967

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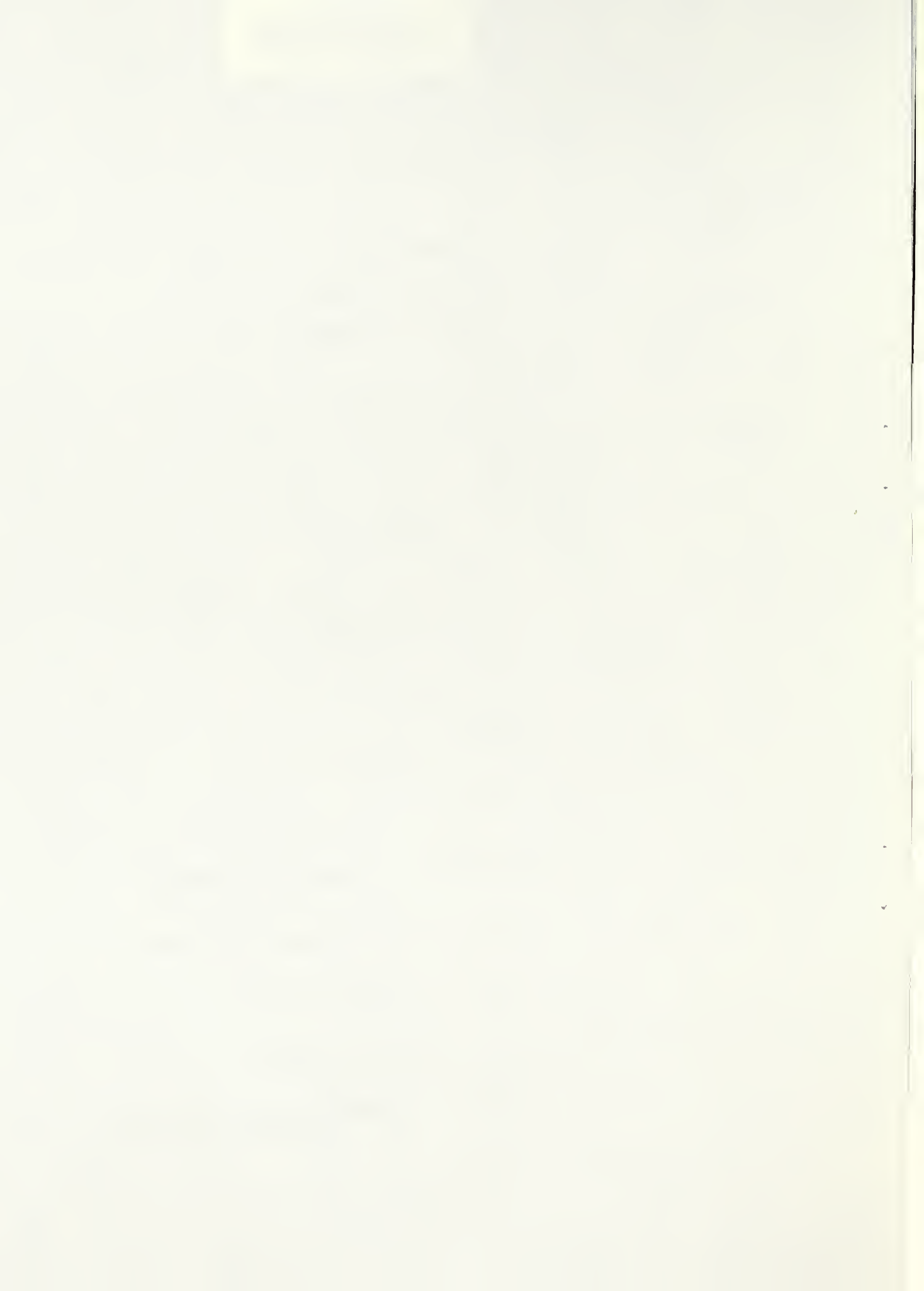


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STATE OF MONTANA
HIGHWAY DEPARTMENT
January 1, 1967

RENTAL RATES FOR EQUIPMENT USE ON FORCE ACCOUNT WORK

The rates shown have been prepared from equipment costs currently effective with only such modification as necessary to meet local conditions.

Instructions as outlined herein below shall be used by all Department personnel in the application and computation of equipment rates.

1. Manufacturer's identification plates attached to equipment shall be used insofar as possible to determine capacities of the designated items of equipment. Where the equipment is not provided with such plates, the Contractor will be required to supply written statements stipulating the equipment capacity as shown by his equipment inventory.

The rates are maximum for equipment of modern design and in good working condition. Equipment shall be so handled and used as to provide normal output or production. Equipment not meeting these requirements may be used only with the approval of the engineer and when furnished at appropriately reduced rates.

ATTENTION OF FIELD ENGINEERS IS DIRECTED TO THE NECESSITY OF ALWAYS SHOWING THE CAPACITY AND FUEL TYPE OF EQUIPMENT ON WORK ORDERS I.E.:

Air Compressor, 126-210 CFM, Gas
Dump Truck, 10.0 - 10.9 Cu. Yds.
Shovel, Crawler, 1½ Cu. Yds.
Loader, Wheel Type, 4 - 5 Cu. Yds.

2. Most commonplace items of equipment are listed in the schedule. In cases where the capacity of the piece of equipment in use is not listed in the schedule, such fact shall be brought to the attention of the Helena Office and a price will be supplied. Because of the fact that new pieces and types of equipment are constantly appearing on the market, the original schedule will be amplified or modified from time to time as necessary.
3. The prices to be used by field forces in submitting Work Orders shall be those shown in the schedules under the heading, "Total Hourly Rate Without Operator - \$". This rate includes everything in the way of insurance, etc., and no percentage shall be added to the rate regardless of the source of equipment. These rates include the Bare Hour Rate and Service Hour Rate where applicable. "Move in" and "move out" charges required by the use of a piece of equipment not available on the job will be included as part of the extra work.
4. When equipment standby is required only 50% of the normal rental rate is applicable.
5. Monthly rates are based upon 25-8 hour single operating shift days.
6. The rates do not include cost of personnel to operate the equipment.
7. The provisions as set forth in the pertinent Articles of the current Edition of the Montana Standard Specifications for Road and Bridge Construction are to be adhered to in the performance of any force account work.

Paul M. Johnson
State Highway Engineer

DESCRIPTIONHourly Rental Rate
Without OperatorAIR COMPRESSORPortable, CFM Rate
Gasoline PoweredFrom to & Including

0	85	4.50
86	125	5.75
126	210	8.25
211	250	9.50
251	315	11.75

Diesel Powered

0	125	5.10
126	210	6.75
211	250	7.70
251	315	8.75
316	366	9.80
367	600	13.80
601	900	17.50
901	1200	21.20

AIR TOOLSBackfill Tampers

Single Unit	0.20
Three Unit	0.50

Clay Spade

0.20

Drifters & Mounting

0.70

Jack Hammer

To 50#	0.30
51# - 68#	0.35
69# - 80#	0.50

Paving Breaker

35# - 40#	0.35
55# - 65#	0.40
80# - 90#	0.50

Plate Tampers

18# - 24#	0.95
36# - And Over	1.45

Sheeting Driver

0.60

Air Vibrator (Flexible type)

1-3/4"	0.45
3-1/2"	0.75

Air Vibrator (Motor-in-head)

1-3/4"	0.50
2-1/2"	0.60
3"	0.75
4-3/4"	1.20

DESCRIPTION	Hourly Rental Rate Without Operator
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AIR TOOLS - Continued

Wrenches, Air Impact (with sockets)

3/4"	0.60
1" - 1-1/4"	0.75
1-1/2"	0.85
1-3/4"	0.95
2"	1.05

Wagon Drills

<u>Towed</u>	<u>Ram Size</u>	
	2"	0.95
	3"	1.55
	4"	1.80
	4-1/2"	2.30

Self-propelled (Air Track)

4"	7.70
4-1/2"	8.00
5"	10.95
7-3/8"	24.00

GRINDERS

<u>Air</u> (*without stone) All Sizes	0.75
<u>Electric</u> (*without stone)	
Rate Includes Power - All Sizes	1.00

Note: Points or bits to be charged at replaceable rate either new or sharpening cost. Likewise, drill steel, hose, stones and other expendable items. Rates are tools only and NOT for attachments. For example, the rate per clay spade covers the mechanical device, but does not include the spade itself.

(Invoices of materials used to accompany final E.W.O.)

CHAIN SAW, Portable

Blade Length:	
to 24"	1.15
25" to 33"	2.10
34" to 50"	2.30

DESCRIPTION

BITUMINOUS EQUIPMENT

ASPHALT PAVING PLANT, Continuous Flow*

Capacity in tons per hour

10	~	25	27.95
26	~	80	44.50
81	~	120	61.55
121	-	150	77.90
151	-	250	92.00
251	~	UP	107.00

Batch Type*

Batch Size

Less than 1000#		12.70
1000# per batch		25.50
2000#		38.20
3000#		50.85
4000#		67.80
5000#		84.70
6000#		101.70
8000#		118.45
10,000# & Over		135.70

Burner fuel to be invoiced at price F.O.B. site
(Fuel for dryer, steam boiler or hot oil heater)

* Includes tunnel, feeder, hot and cold elevators, pyrometic and thermostatic controls, dryers, gradation controls (2 or more units) dust collectors, asphalt and burner fuel storage, steam boiler or hot oil heater, pug mill and power units for complete operation.

ASPHALT FINISHERS

8' to 10'; Gas	16.80
8' to 10'; Diesel	18.30
8' to 16'; Gas - with electronic s reed	20.70
8' to 16'; Diesel - with electronic s reed	23.00

ASPHALT FLANERS, 0.1 Fired

72" to 81" Cut	12.30
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Burner fuel to be invoiced at price F.O.B. site

ASPHALT PRESSURE DISTRIBUTOR

Includes truck, full circulating spray bar, heater, insulation, power unit, tacometer, etc.

Capacity Gallons

0	~	1000	11.40
1001	~	1500	13.40
1501	~	2000	14.55
2001	~	2500	15.70
2501	~	UP	18.00

DESCRIPTION

BITUMINOUS EQUIPMENT (Continued)

ASPHALT HEATERS

Boiler type, portable
(With pump and steam hose)
2 car

2.40

Retort type, portable
2 car
3 car

2.20
2.75

Burner fuel to be invoiced at price F.O.B. Site

DRYER

Including Power

Rated Capacity tons per hour

30 to 45
46 to 90
91 to 160
161 to UP

11.45
13.90
18.65
23.35

Only separate usage

PULVERIZER

Self-Propelled

Cutting width 6' or 7' Diesel or Gas

10.05

Drawn Type*

Cutting width 6' Gas
Cutting width 6' Diesel

6.25
8.80

* To this must be added the tractor or other equipment used for efficient operation. See Page 19 or 20.

KETTLES

To 165 Gals.
166-300 Gals.

0.25
0.35

MIXING PLANTS TRAVELING #

Elevator type including
propulsion unit

Normal Duty 100-175 Cu. Yds.
Heavy Duty 176-250 Cu. Yds.

27.20
29.80

Self-Propelled

Drum, Screw Type 90-150 Cu. Yds.

19.90

Towed*

Drum, Screw Type 250-350 Cu. Yds.

14.55

* To the towed mixer must be added the tractor rental rate for travel.

Rates for asphalt, cement or water supply tankers of the necessary equipment used for efficient operation must be added.

CHIP SPREADER-(Self propelled)

Flaherty type or equal - 12' wide

14.05

DESCRIPTION	Hourly Rental Rate Without Operator
<u>BROOMS</u>	
<u>*Drawn Type, Engine Powered</u>	
6'	2.95
To 7'	3.00
To 8'	3.30
To 10'	3.35
<u>*Drawn Type, Traction Powered</u>	
6'	1.85
To 7'	1.90
To 8'	2.20
To 10'	2.25
<u>Self-propelled (Flaherty or equal)</u>	
10 speed with blower 8' x 30" broom, power positioning	5.45
<u>Mobile Street Sweeper (or equal)</u>	
Separate engine for broom	
4-wheel - 3 yard capacity	9.40

Brush wear to be invoiced separately.

* Add tractor unit employed

DESCRIPTION

CONCRETE EQUIPMENT

Transit Mixers less truck*

(Includes power unit)

Cu. Yd. Capacity

5	2.65
5½	2.70
6	2.75
6½	2.80
7	2.90
7½	3.20
8	3.35
8½	3.40
9	4.15
11	4.50

* To this add truck rental rate. Page 23.

CONCRETE PAVER

Slip Form Type - 0- 25 Ft.	86.25
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CENTRAL MIX BATCHING PLANT

Portable, yard per batch:

8 - 10 Single	118.45
8 - 10 Twin	135.70

CONCRETE FINISHERS

Transverse Type

Width Slab:

10' --- 30'	10.35
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CONCRETE SPREADER

Width:

10' --- 15'	8.85
20' --- 25'	12.50

CONCRETE VIBRATORS, Flexible

Shaft Type

Electric Powered (complete unit, includes power)

H.P.	Shaft Length	
1	7' to 21'	0.75
1-1/2	7' to 21'	1.10
2-1/2	7' to 21'	1.25
3	14' to 28'	1.55

Gasoline Engine Powered (Complete unit, includes power)

2-1/4	7' to 21'	1.40
3	14' to 28'	1.55
5.6	14' to 28'	1.95
6	14' to 28'	2.05

DESCRIPTION

Hourly Rental Rate
Without OperatorCONCRETE VIBRATORS - ContinuedMotor-in-head typeHigh Cycle (180) 115 V.A.C.
1200 W Generator included

Single Unit

Casing Length

7'	2.55
14'	2.60
21'	2.65

Dual Unit

Casing Length

7'	2.70
14'	2.75
21'	2.80

Heavy Duty

Single Unit

Casing Length

7'	2.95
14'	3.05
21'	3.10

Dual Unit

Casing Length

7'	3.15
14'	3.20
21'	3.25

Low Cycle (6) 115 V W/leads A.C.

Power included

Casing Length

7'	1.00
14'	1.05
21'	1.10

CONCRETE AND ASPHALT SAW (Manually Operated)

* Blades not included

Horsepower

to 8	1.00
8 to 18	1.30
18 to 30	1.45
30 & Over	1.65

* Blades are to be charged at replaceable rate either new or sharpening cost.

DESCRIPTION

Hourly Rental Rate
Without Operator

GENERATORS, Electric
Gasoline Powered, Complete
with Panel & Cable

Kilowatts

From to and Including

10	25	2.40
26	30	3.80
31	35	4.45
36	45	5.40
46	60	6.70
61	75	8.40
76	90	9.40
91	100	10.35
101	125	14.45

Diesel Powered, Complete
with Panel & Cable

Kilowatts

From to and Including

10	30	4.70
31	40	5.40
41	60	6.40
61	75	7.35
76	100	8.00
101	125	11.75
126	145	12.95
146	165	14.80
166	200	16.40
201	250	20.60
251	300 & Over	24.80

LIGHT PLANTS, Portable
Gasoline or Diesel Powered

Rate includes Wiring, Bulbs, etc.

Rated in Watts of Output

500	1100	0.70
1101	1750	0.80
1751	2900	1.25
2901	4500	1.90
4501	6000	2.60
6001	7500	3.30
7501	12,500	4.70

DESCRIPTION

Hourly Rental Rate
Without Operator

GRADERS, Self-Propelled
Fully Equipped
Diesel or Gasoline Powered

Rate by Weight

<u>From Light to and including 16,500#</u> (Incl. Adams 201, A.C.D. & D. & W., Cat 212, Galion 402 G, 303, 303-G, 303-D, and 503, Austin-Western Pacer 100, Huber Warco M-52, LeTourneau Westinghouse - 220)	9.45
<u>From 16,501# to and including 20,500#</u> (Incl. Adams 305, 312 & 414, A.C. DD-2 & DD-3, Austin-Western Super 100, Pacer 200 & Super 200, Cat.112, Galion 203-D (All))	11.85
<u>From 20,501# to and including 25,500#</u> (Incl. Adams 330-330H, 440, 512 & 550 (211), A.C. AD-3, AD-4 145 & 45, Austin-Western Pacer 300 & Super 300, & Pacer 400, Cat.112 E, 112 F & 12, Galion 103-D, 104, 118 & T-500, Huber- Warco 8-D, 9-D, 6-D, 6-D2 & 10-3, Pettibone-Mulliken 401, 401 A, 402, PM-412 & PM-502, LeTourneau-Westinghouse-330, 330-H, 440, 550, Power Flow 550 & 666)	14.55
<u>From 25,501# to and including 30,000#</u> (Incl. Adams 610, A.C. M-100, Austin-Western Super 400, Pacer 500 & Super 500, Galion 116-D, Huber-Warco 7-D, 7-D2 & 11-D, Pettibone-Mulliken 403, 404, PM-412-C-CT, PM-12-C-CT, LeTourneau-Westinghouse 660, Power Flow 660 & 777)	16.75
<u>From 30,001# to and including 35,000#</u> (Incl. Adams 660 & 660 Power Flow, Cat.14, Galion 160, T-600 & Huber-Warco 5-D-190, Pettibone-Mulliken PM-612)	19.50
<u>From 35,001# to and including 40,000#</u> Galion T-700	22.00
<u>From 40,001# to and including 45,000#</u> Cat. #16	24.25

For Torque Convertor unit add \$1.15 per hour to above rates.

For Electronic Leveling Device add \$1.15 per hour to above rates.

DESCRIPTION

LOADERS

Front End

Crawler Mounted (Gas or Diesel)
Rated in Cu. Yds. Struck Measure

<u>From</u> <u>But Not Inc.</u>	<u>To</u> <u>And Inc.</u>	
1/2	5/8	2.65
5/8	3/4	3.55
3/4	1	11.35
1	2	20.30
2	3	29.80
3	4	39.00

Front End

Wheel Type Tractor (Gas or Diesel)
Rated in Cu. Yds. Struck Measure

3/8	5/8	6.20
5/8	1	11.40
1	2	13.50
2	3	17.55
3	4	21.05
4	5	27.15
5	8	33.35
8	& Over	40.25

Conveyor Type (Bucket or Belt)

Self-Propelled

25-35 H.P., 20-25 Ft. Long	8.65
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* Kolman or Equal

Gasoline or Diesel engine drive, with feeder & trap

50' x 18"	5.65
50' x 24"	6.05
50' x 30"	6.75
50' x 36"	7.00 8.15
50' x 48"	12.10
50' x 60"	16.00

* For Shaker Screen add \$1.15 per hour to the above rates.

DESCRIPTION

Hourly Rental Rate
Without OperatorPILE DRIVER HAMMERSDiesel Driven

Rated in Ft. Pounds

To	5,375	6.00
5,376 -	8,125	7.00
8,126 -	9,825	9.60
9,826 -	12,000	12.80

Steam or Air Driven, Single Acting

To	7,050	3.20
7,051 -	8,500	3.75
8,501 -	9,700	4.00
9,701 -	11,200	4.20
11,201 -	11,725	4.25
11,726 -	16,750	5.40
16,751 -	17,350	5.60

Steam or Air Driven, Double Acting

To	145	0.60
146 -	343	0.90
344 -	786	1.05
787 -	1,550	1.25
1,551 -	2,970	1.90
2,971 -	4,900	2.30
4,901 -	5,000	2.35
5,001 -	7,036	3.70
7,037 -	7,130	3.75
7,131 -	11,075	3.95
11,076 -	11,782	4.80
11,783 -	13,750	5.25
13,751 -	17,885	6.60

Driving Caps

To	800	0.10
801 -	1,200	0.14
1,201 -	1,500	0.18
1,501 -	1,800	0.20
1,801 -	2,500	0.23
2,501 -	3,500	0.24
3,501 -	6,000	0.28

Pile Driver Leads and Attachments

10 Ft. Section	0.25
30 Ft. Section	0.75
40 Ft. Section	0.90

For a complete unit, fully maintained, the hourly rate for applicable Pile Driver shall be added. See Page 18.

DESCRIPTION

Hourly Rental Rate
Without Operator

PUMPS (Portable)

Includes Power Self-Contained or otherwise and all hoses and fittings.

Discharge		
Size	Capacity	
Inch	GPM	
1-1/2	3M	1.30
2	7M	1.75
2	10M	2.20
3	15M	2.55
3	20M	2.95
4	30M	3.60
4	40M	4.00
6	90M	4.65
8	125M	5.30
10	220M	6.50

DESCRIPTION	Hourly Rental Rate Without Operator
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ROLLERS

Sheepsfoot, Vibrating, Drawn Type

Single Unit

<u>Width of Shell</u>	<u>Diameter</u>	
58"	64"	9.55

Double Unit

58"	64"	19.00
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1600 VPM 20,000 impact dynamic ground pressure 6,000# per square inch

Self-Propelled, Steel Wheel

Tandem - Gasoline Powered

Rated in tons w/Ballast

4	-	6	3.70
6.1	-	8	4.10
8.1	-	10.5	5.20
10.6	-	14	6.05
14.1	-	20	9.95

Diesel Powered

5	-	8	4.25
8.1	-	10.5	4.70
10.6	-	12	5.25
12.1	-	14	6.05
14.1	-	20	9.65

Three Wheel-Gasoline Powered

7	-	10	5.90
10.1	-	12	6.45
12.1	&	Over	6.90

Diesel Powered

7	-	10	6.05
10.1	-	12	6.45
12.1	&	Over	6.85

Three Axle Tandem, Gasoline Powered

12	-	19	11.35
19.1	-	25	18.75

Diesel Powered

12	-	19	11.75
19.1	-	25	19.00

CLASS I

Self-Propelled, Pneumatic Tired. (No rate differential for Gas or Diesel)

<u>No. Wheels</u>	<u>Width</u>	<u>Max.-Weight</u>	
9	68"	20,000-21,470	5.85
9	69"	19,730-26,100	5.10
9	72"	20,000-And Over	4.45
11	83"	24,800-27,500	6.45

DESCRIPTION	Hourly Rental Rate Without Operator
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ROLLERS - Continued

<u>No. Wheels</u>	<u>Width</u>	<u>Max. Weight</u>	
<u>CLASS II</u>			
9	64"	30,000-36,000	6.55
9	68"	67,200	7.65
<u>CLASS III</u>			
11	88"	60,020-	10.65
11	94"	50,000-60,200	10.60
11	96"	50,000-	8.15
13	104"	61,030-	12.15
<u>CLASS IV</u>			
7	84"	60,260-	15.10
7	85"	60,000-66,500	13.05

Vibratory

Self-Propelled, Gasoline Powered

<u>Shell</u>	<u>Impact</u>		
<u>Width</u>	<u>Diameter</u>	<u>Force</u>	
27-1/2"	29-1/2"	3,000#	3.35
28"	22-1/2"	10,000#	1.95
30"	24-1/2"	2,000#	2.30

Drawn Type, Gasoline Powered

54"	30"	10,000#	3.30
66"	36"	15,000#	6.20
72"	51"	17,000#	7.60

Diesel Powered

54"	30"	10,000#	4.15
66"	36"	15,000#	7.30
72"	51"	17,000#	8.35

NOTE: Dynamic ground pressure variable with rate of V.P.M.

Pneumatic-Tired, Drawn Type

<u>No. Wheels</u>	<u>Width</u>	<u>Max. Weight</u>	
4	---	100,000#	6.15
4	---	120,000#	7.35
4	---	200,000#	13.50
4	---	400,000#	31.35
9	60"	20,000#	1.10
9	68"	20,000#	1.15
11	73"	30,000#	1.30
11	84"	26,000#	1.20
13	84"	28,000#	1.30

DESCRIPTION	Hourly Rental Rate Without Operator
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ROLLERS - Continued

Tamping Sheepsfoot

Single Drum

(Any number tampers)

<u>Diameter</u>	<u>Shell Width</u>	<u>Max. Weight (Lbs.)</u>	
40"	48"	3,000	0.65
60"	60"	7,500	1.25
60"	60"	8,400	1.90
60"	72"	10,250	2.00

Double Drum

40"	48"	6,000	1.10
40"	48"	7,200	1.20
40"	48"	8,900	1.60
48"	48"	10,500	1.80
48"	60"	13,000	2.45
60"	60"	14,400	2.60
60"	72"	16,250	3.05
60"	72"	17,000	3.10
72"	60"	18,000	3.15
72"	72"	20,000	3.70
60"	60"	21,600	3.75

Triple Drum

40"	48"	10,000	1.80
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Tamping, Grid Type

Double Drum

67"	32"		4.10
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Single Drum

67"	32"		2.80
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Tamping, Steel Shoe, Buffalo K.45 (or equal)

To 16 Tons			12.50
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Tamping, Steel Shoe, Wagner WC 17 (or equal)

16.1 Tons & Over			15.00
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DESCRIPTION

Hourly Rental Rate
Without OperatorSCRAPERS & WAGONS

Manufacturers Rated Cu. Yds. Struck Capacity

* Drawn type (rate includes power control unit)

<u>From</u>	<u>To & Inc.</u>	
2	5	3.05
6	10	5.10
11	15	6.90
16	20	9.20
21	25	12.40
26	& Over	15.35

* For a complete earth moving unit, fully maintained, the hourly rate for the Crawler Tractor unit should be added. Page 19 or 20.

Self-Propelled (complete units)

4-wheel tractor-single engine, with scraper or wagon.

<u>From</u>	<u>To & Inc.</u>	<u>H.P.</u>	
5	10	101 - 199	15.90
11	15	200 - 280	20.10
16	20	281 - 345	29.15
21	25	346 - 430	36.60
26	30	431 - 490	43.05
31	Over	491 & Over	49.50

2-Wheel tractor-single engine, with scraper or wagon.

5	10	100 - 165	14.80
11	15	166 - 280	21.35
16	20	281 - 345	28.10
21	25	346 - 430	31.70
26	30	431 - 490	35.30
31	Over	491 & Over	38.85

2-Wheel tractor-2 motors, with scraper

14	20	269 HP - 269 HP	21.30
21	30	317 HP - 207 HP	33.85
31	45	500 HP - 360 HP	51.75

4-Wheel tractor-2 motors, with scraper

40	54	500 HP - 360 HP	53.76
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DESCRIPTION

Hourly Rental Rate
Without Operator

SHOVEL

Shovel, Backhoe, Crane, Clamshell,
Dragline, Orange Peel, Paving Breaker
Pile Driver*
(Boom length recommended by the manufacturer)
Rated Size - Cu. Yds.

<u>Crawler Mounted</u>	<u>Diesel or Gasoline Powered</u>
3/8	10.60
1/2	11.60
5/8	13.10
3/4	14.65
1	16.80
1-1/4	19.85
1-1/2	22.95
2	29.80
2-1/2	33.95
3	41.30
3-1/2	49.95
4	55.55
4-1/2	61.25
5	67.30
 <u>Truck Mounted</u>	
1/4	8.15
3/8	10.65
1/2	13.35
3/4	18.65
1	22.55
1-1/4	25.40
1-1/2	28.40

* When used in connection with pile driving, the rates for lead and hammer shall be added to that rate applicable above. See Page 12.

DESCRIPTION

Hourly Rental Rate
Without OperatorTRACTOR, CRAWLER *

<u>Make</u>	<u>Type</u>	<u>DB-H.P.</u>	
OC-3, 420 C Deere, OC-4-3G, 430C, 440-1C, OC-4-3, 310, 320, 420 "C" Case, 1010 C Deere, T 340	Gasoline	20-31	4.95
BGT-9, T-6, T-6 (61 & 62 series) T-9		32-43	6.25
DG, OC-12, 520, 600 B, OC-9, 800, Mo Trac.		53-75	8.70
440-1C, TD-6, D2, Crrnt. 310, 420 "C" Case, 1010 C Deere, TD-6, Oliver AD	Diesel	29-31	5.85
D2-4U-5U, HD-3, HD-5 TD-340, TD-9		32-41	6.45
D-4 (All), HD-6, TD-6 (61, 62 Series) TD-9		42-52	7.55
OC-12, TD-9 Series 91-92, TD-14 Series 141, TD-14A, HE-7, HD-9, D-6 (All)		53-75	10.45
D-7 (All), TD-14 Series 142, TD-15 Series 150-151, TD 18 (All), TD 20 (All), HD 11, HD 15, HD 19 A, Oliver-OC-15, FD, FDE		76-114	13.25
D-7-47A, D-8-8R-24, HD-16, HD-20 (TC), TD 24, Oliver OC-18		115-140	16.70
D-8-13A, D-8 (DD) 14A D-8 (TC), TD-24 Series 241, & T.C., HD-16C		141-175	19.55
D-8 (DD) 36A, D-8 PS 46A TD-25 (250 Series) TD-25 (TC) HD-21 (TC)		176-250	21.30
D-9 (DD) 18A, (TC) 19A, (DD) 49A		251-300	21.75
D-9 (TC) 50A, (PS) 34A, (PS) 66A		301-400	24.60

DESCRIPTION	Hourly Rental Rate Without Operator
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TRACTOR, CRAWLER * - Continued

<u>Make</u>	<u>FW-H.P.</u>	
Euclid TC-12	452	24.60
Cat. Quad 9 - (DD) Direct Drive (TC) Torque Converter Drive (PS) Power Shift	770	50.00

* The reference to numbers shown are the manufacturer's model number of popular makes of tractors commonly found in the field. They are shown in this schedule for purpose of identification only.

TRACTOR, Industrial Pneumatic-tired.
Rates include power takeoff.

Gasoline Powered

To 35	3.00
36 - 45	3.75
46 - 55	4.85
56 - 65	6.40

Diesel Powered

To 35	2.05
36 - 46	2.90
47 - 61	6.15
62 - 81	7.15
82 - 130	8.50
131 - 175	11.00
176 - 200	16.45
201 - 218	16.80
219 - 280	17.65
281 - 300	19.60
301 - 320	22.10
321 - 350	24.55
351 - 400	26.95
401 - 416	29.45

TRACTOR ACCESSORIES

Dozer Attachments #
Angle, Bull or U-Dozer
w/controls

Rated H.P.

<u>From</u>	-	<u>To</u>	
0	-	52	1.20
53	-	75	2.40
76	-	140	2.70
141	-	175	2.90
176	-	250	3.20
251	-	300	3.80
301	-	350	4.35
351	-	Over	4.95

Rippers, Attachments #
w/controls

0	-	52	1.15
53	-	75	1.75
76	-	140	1.95
141	-	175	2.90
176	-	250	3.20
251	-	300	3.80
301	-	350	4.35
351	-	Over	4.95

Ripper Points to be invoiced separately.

For a complete unit, full maintained, the hourly rate for the Crawler Tractor unit should be added. See Pages 19 and 20.

Back Hoe Attachment *

For pneumatic tired industrial type tractor

<u>Bucket Size</u>	
18"	1.45
20"	1.75
30"	2.30

Auger Attachment *

For mounting on tractor w/adaptor & blade

<u>Rated in inches blade size</u>	
6"	0.40
12"	0.50
16"	0.60

* For a complete unit, fully maintained, the hourly rate for the applicable tractor (Industrial) unit should be added. See Page 20.

DESCRIPTION

Hourly Rental Rates
Without Operator

TRAILERS

End-Bottom or Side Dump Units
(With Power Control Unit)

Manufacturers Rated Struck Capacity Cu. Yds.

<u>From</u>	<u>To & Inc.</u>	
12	14	6.90
14.1	19	8.35
19.1	25	11.00
25.1	32	16.20
32.1 & Over		19.45

For a complete earth moving unit fully maintained, the hourly rate for the applicable Tractor unit should be added. See Page 20.

Low Boy, Drop Center & Flat Bed

Load Capacity in Tons

<u>From</u>	<u>To & Inc.</u>	
10	19	2.65
19.1	34	3.20
34.1	50	4.70
50.1 & Over		6.90

Belly Dumps

20	25	3.70
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For complete unit, fully maintained, the hourly rates for the applicable Truck Tractor should be added. See Page 23.

TRENCHERS

Ditch Witch, C.49 (or equal)

7 - 9 Horsepower to 6" width to 24" depth	2.80
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JEEP TRENCHER (or equal) complete unit

Power takeoff, Hydraulic control to 15" width to 5' depth	5.15
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TRUCKS

	<u>Type</u>	<u>Manufacturer's Rated Capacity-Ton</u>	
Trucks (Except Dump)	FPS	To 3/4	1.90
F-Flatbed	FPS	1	2.00
P-Pickup	FPW	1-1/2	2.30
S-Stake	FSW	2	3.00
W-Water *	FSW	2-1/2	4.30
	FSW	3	5.80
	FSW	3-1/2	6.50
	FSW	4-4-1/2	9.15

Automobile rated same as 3/4 Ton Pickup. Rates include 4-wheel drive unit without operator.

* For a complete unit, fully maintained, the hourly rate for the water tank unit should be added. See Page 25.

TRUCK TRACTORS (Trailers not included)
Rated Capacity G.V.W. (legal limits)

Gasoline Powered

Single Axle Truck

26,000 # to 42,000 # 4.60

Single Axle Truck

42,000 # to 56,000 # 7.50

Tandem Axle Truck

56,000 # to 72,000 # 11.50

Diesel Powered

Single Axle Truck

Axle Trailer
26,000 # to 56,000 # 10.10

Tandem Axle Truck

Axle Trailer
56,000 # to 72,000 # 15.70

For Truck Trailers & Trailer Type Sprinklers. See Pages 22, 25 and 26.

DESCRIPTION	Hourly Rental Rate Without Operator
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TRUCKS - Continued

WINCH and or A Frames All Sizes 0.50

TRUCKS (Dump)#

Net Haul Weight	Struck Cu. Yds.	
To 8,100	To 2.9 Inc.	3.05
8,101 - 10,900	3.0 - 3.9	3.20
10,901 - 13,700	4.0 - 4.9	3.60
13,701 - 16,500	5.0 - 5.9	4.35
16,501 - 19,300	6.0 - 6.9	5.70
19,301 - 22,100	7.0 - 7.9	7.15
22,101 - 27,700	8.0 - 8.9	8.70
27,701 - 30,500	10.0 - 10.9	12.00
30,501 - 36,000	11.0 - 12.9	13.45
36,001 - 50,000	13.0 - 17.9	17.25
50,001 - Over	18.0 & Over	20.70

When dump truck use is on a tonnage basis, the rate shall be applied in accordance with the weight hauled. When the use is on a yardage basis or otherwise, the rate shall be applied in accordance with the dump body size.

Heavy Duty Rock and Off Highway - Dump Units

<u>Struck Cu. Yds.</u>	<u>Ton Rating</u>	
6	9	8.75
8	12	11.10
12	17	14.45
15	22	17.75
20	28	21.75
25	35	24.75
30	45	29.20
45	60	35.75

Rate includes the complete operative unit.

* TRUCK MOUNTED HYDRAULIC AERIAL CRANE & LADDER

Baldwin - Ward - Model JR 54 (or equal)
54 Ft. Height Crane & 4-Section Ladder 4.70

Baldwin - Ward - Model 64 (or equal)
64 Ft. Height Crane & 4-Section Ladder 5.35

* TRUCK MOUNTED POWER AUGER UNIT

Variable Bit Sizes
(12" to 36") Complete Unit 11.85

* Rates includes truck rental rate.

DESCRIPTION

Hourly Rental Rate
Without Operator

TANKERS (Water)

* Truck Mounted

Gravity Discharge w/o Pump

1,000 to 2,000 Gals. 0.15

2,000 to 3,000 Gals. 0.25

With pump, power unit & spray bar

0 - 2,000 Gals. 1.15

2,001- 4,000 Gals. 2.30

Trailer Mounted

Single Axle Trailer Mounted

Gravity discharge, w/o pump

3,000 to 4,000 Gals. 0.85

With pump, power unit & spray bar

3,000 to 4,000 Gals. 2.90

Tandem Axle Trailer Mounted

Gravity discharge with pump

5,500 to 6,500 Gals. 2.30

With pump, power unit & spray bar

5,500 to 6,500 Gals. 3.40

* For complete unit, fully maintained, the hourly rate for the proper,

*Truck or #Truck Tractor, unit should be added. See Page 23.

When pumps are necessary, see Page 13.

Tanker (Bituminous)*

2-Wheel or 4-Wheel

Insulated & Transfer Pump

To 1,000 Gals. 1.10

1,001 - 1,500 1.25

1,501 - 2,000 1.55

2,001 - 2,500 1.60

2,501 - 3,000 2.30

3,001 - 3,500 3.40

3,501 - 4,000 3.60

4,001 - 5,000 4.90

Insulated, Transfer Pump, Burner & Heat

1,500 - 2,000 Gals. 5.60

2,001 - 2,900 5.75

2,901 - 4,000 7.50

4,001 - 5,000 8.20

DESCRIPTION	Hourly Rental Rate Without Operator
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Non-Insulated with Transfer Pump

To 1,000 Gals.	0.90
1,001 - 1,500	1.15
1,501 - 2,000	1.30
2,001 - 2,500	1.40
2,501 - 3,000	1.60
3,001 - 3,500	3.05
3,501 - 4,000	3.30
4,001 - 5,000	4.45

* For the complete unit, full maintained, the hourly rate for the proper Truck Tractor should be added. See Page 23.

VIBRATORS

<u>Masters Vibrator Model T-1000 (or equal)</u> Less than 250 lbs. - 3 horsepower	0.90
<u>Wacker Corp. Model G.V.R. 100 C. (or equal)</u> 5-1/2 horsepower - Shoe 12" x 13"	1.45
<u>Vibrating Compactor Turtle (or equal) Model CM 20</u> Less than 1,000 lbs. 6600 lbs. impact, 2,000 V.P.M. 5-1/2 horsepower	2.15

DESCRIPTION	Hourly Rental Rate Without Operator
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WELDERS, Oxy-Acetylene

Rate includes regulators, hoses, tips and cart 0.15

Electric, bench type; Electric Powered

300 AMP AC	0.25
400 AMP AC	0.30
200 AMP DC	0.45
300 AMP DC	0.50
400 AMP DC	0.60

* Portable, Gasoline Powered, Trailer Mounted

200 AMP	1.85
300 AMP	3.80
400 AMP	4.85
600 AMP	6.30

* Portable, Diesel Powered, Trailer Mounted

300 AMP	4.35
400 AMP	5.20
600 AMP	8.00

Welding supplies not included

To be paid on invoice at cost F.O.B. Site

* When truck mounted use 50% of applicable truck rate. See Page 23.

